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**Prokaryotic Cell Labeling Worksheet**

Pre-AP Biology, Mrs. Krouse

**Complete the prokaryotic cell labeling assignment based on the directions given below:**

Bacteria are unicellular (ONE CELL!) and are covered with a thick outer cell wall. *Label the cell wall on both images below.*

Just within the cell wall is the cell membrane. *Label the cell membrane on both images below.*

Along the surface of some bacteria are structures called pili (pilus-singular) that help bacteria adhere to surfaces. *Label the pili on both images below.*

Some bacteria are motile (can move). Many of these bacteria have long, whip like structures called flagella (flagellum-singular). *Label the flagella on both images below.*

Since bacteria are prokaryotes, they do NOT have a nucleus. They do have a single strand of DNA (double helix), their chromosome, in the nucleoid region (center of the cell). This single strand of DNA contains all the instructions for making more bacterial cells. *Label the DNA and nucleoid region on both images below.*

The inside of the bacterial cell is filled with cytoplasm. *Label the cytoplasm on both images below.*

Sprinkled throughout the cytoplasm of the cell are small, round structures called ribosomes. Ribosomes make proteins for the cell. *Label a ribosome on both images below.*

